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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/734,305	09/734,305 12/11/2000		Alexis Campailla	154751.1/40062 ¹ 83US01	3884
23552	7590	08/02/2004		EXAMINER _	
MERCHAI		OULD PC	MIRZA, ADNAN M		
P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903				ART UNIT	PAPER NUMBER
				2141	7
				DATE MAILED: 08/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)
7 4	09/734,305	CAMPAILLA, ALEXIS
Office Action Summary	Examiner	Art Unit
	Adnan M Mirza	2141
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ting y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 11 D This action is FINAL. 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subjected to by the Examine 10) The drawing(s) filed on is/are: a) acc	wn from consideration. or election requirement. er. eepted or b) objected to by the I	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application in the second	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5.6/4/23/01.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Art Unit: 2141

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barasade et al (U.S. 2002/0169670 and Gharachorloo et al (U.S. 6,738,868)

As per claims 1,7,13 Barasade disclosed a method for filtering one or more messages for transmission or subscriber computing system according to an individual information request criteria, the method comprising: constructing a binary decision diagram implication graph for each individual information request criteria specified for each subscriber; identifying logical implications from one or more nodes in a binary decision diagram from a first information request criteria to one or more corresponding binary decision diagrams within a second information request criteria (Page. 12, Paragraph 0116); receiving one or more messages to be filtered; evaluating a first information request criteria based upon information within the received messages; evaluating one or more information request criteria based upon information within the received messages using the identified logical implications between one or more binary decision diagrams within the information request criteria being evaluated and one or more binary decision diagrams previously evaluated;

Page 2

However Barasade did not disclose in detail transmitting the received message to the subscriber computing system corresponding to an information request criteria evaluated to be satisfied by information combined within the received message.

In the same field of endeavor Gharachorloo disclosed in detail this is the case when a transaction needs to send two or more messages to other nodes in the system. The scheduler is able to determine whether the current Even (or Odd) transaction should be scheduled to execute again during the next Even (or Odd) clock cycle by inspecting the state, counters and condition codes in the TSRF of the currently executing transaction to determine if they satisfy predefined criteria for continuing execution of the current transaction for an additional execution cycle (col. 13, lines 64-67 & col. 14, lines 1-5).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated when a transaction needs to send two or more messages to other nodes in the system. The scheduler is able to determine whether the current Even (or Odd) transaction should be scheduled to execute again during the next Even (or Odd) clock cycle by inspecting the state, counters and condition codes in the TSRF of the currently executing transaction to determine if they satisfy predefined criteria for continuing execution of the current transaction for an additional execution cycle in the method of Barasade to reduce latency of sending messages across the network by reducing congestion inside the network.

Art Unit: 2141

- 3. As per claims 2,8,14 Barasade- Gharachorloo disclosed wherein the binary decision diagrams include an expression of an information request criteria in an if-then-else normal form (Barasade, Page. 12, Paragraph 0116). Barasade process the subroutine according to the selection criteria or otherwise return to it main logic flow chart that is interrupted by one ordinary skill in the art at the time of the invention as to its normal form of binary decision diagram.
- 4. As per claims 3,9,15 Barasade- Gharachorloo disclosed wherein the constructing step further comprises recursively visiting the high and low successors for each node in the binary decision diagrams; while visiting each node, determine the precondition pre(X') for each successor and compute the target t(X') for all visited nodes and apply permissible implications; and iterate the processing for all implications (Barsade, Page. 13, col. 0127).
- 5. As per claims 4,10,16 Barasade- Gharachorloo disclosed wherein permissible implications for a node M with successor node N include: If node N is equal to the high successor high(M), and If p(M) implies p(N), then remove N and set the high(M) equal to high(N); and if p(M) implies! P(N), then remove N and set high(M) equal to low(N) (Gharachorloo, col. 14, lines 33-46).
- 6. As per claims 5,11,17 Barasade- Gharachorloo disclosed wherein permissible implications for a node M with successor node N include: If node N is equal to the low successor low(M), and if ! p(M) implies p(N), then remove N and set the low(M) equal to high(N); and if !

Art Unit: 2141

p(M) implies ! p(N), then remove N and set low(M) equal to low(N) (Gharachorloo, col. 25,

lines 41-67).

7. As per claims 6,12,18 Barasade- Gharachorloo disclosed wherein the evaluating steps further comprises determining if a current node is a leaf node in the binary decision program; if the current node is a leaf node, marking the information request criteria as being decided and returning the value of the current node; if the current node is not a leaf node (Barasade, Page. 12, Paragraph 0116), determining a value of the expression for the node p(X); if the value of the expression of the node is true setting X'= high(x) otherwise X'= low(X); inserting X' into the rank; and visiting the targets of node X' to compare the current node with the target node; if the target node is lower then the current node according to a predicate order, update the current node (Barsade, Page. 13, col. 0127).

Conclusion

8. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (703)-305-4633.

Page 5

Art Unit: 2141

9. The examiner can normally be reached on Monday to Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dharia Rupal can be reached on (703)-305-4003. The fax for this group is (703)-746-7239.

10. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)-746-7239 (For Status Inquiries, Informal or Draft Communications, please label "PROPOSED" or "DRAFT");

(703)-746-7239 (For Official Communications Intended for entry, please mark "EXPEDITED PROCEDURE"),

(703)-746-7238 (For After Final Communications).

11. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Any response to a final action should be mailed to:

BOX AF

Commissioner of Patents and Trademarks Washington, D.C.20231

Or faxed to:

Art Unit: 2141

Page 7

Hand-delivered responses should be brought to 4th Floor Receptionist, Crystal Park II, 2021 Crystal Drive, Arlington, VA 22202.

AM

Adnan Mirza

Examiner

RUPAL DHARIA
SUPERVISORY PATENT EXAMINER